

# Westwood Hackers

I'm Summer Gautier, the student team leader for Westwood Hackers. This is the link to what we

presented: <https://sustainmesa.000webhostapp.com/index.html>

When you open each page, there's a circle with an arrow to the right, press that to see each "slide". The website might be down from 2am - 5am.

# Sustainability Mesa, AZ



# Our Mission.

In order to sustain our city through future generations, it is crucial to have efficient systems of transportation. The data we have organized can give us insights into how our current systems can be improved in order to prevent heavy traffic and accidents from happening in busy areas as well as increase ridership on lightrails and multi-path usage.





# Impact.

Sustainability is critically relevant in making sure our city can be at optimal functionality for as long as possible and still looks beautiful decades from now. In order to ensure that we still have a functioning society in the future, we must find the most efficient methods possible in sustaining the growth of our economy, population, welfare and productivity.



# The Insights.

Find Out What We've Learned from our unique visualitions of city traffic data. The insights tab explains our process of analysis. Traffic and Mult-Path show the visualizations and our conclusions/solutions. The original data-sets we utilized are also available, on the Sources page.







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# Traffic Collisions & Congestion







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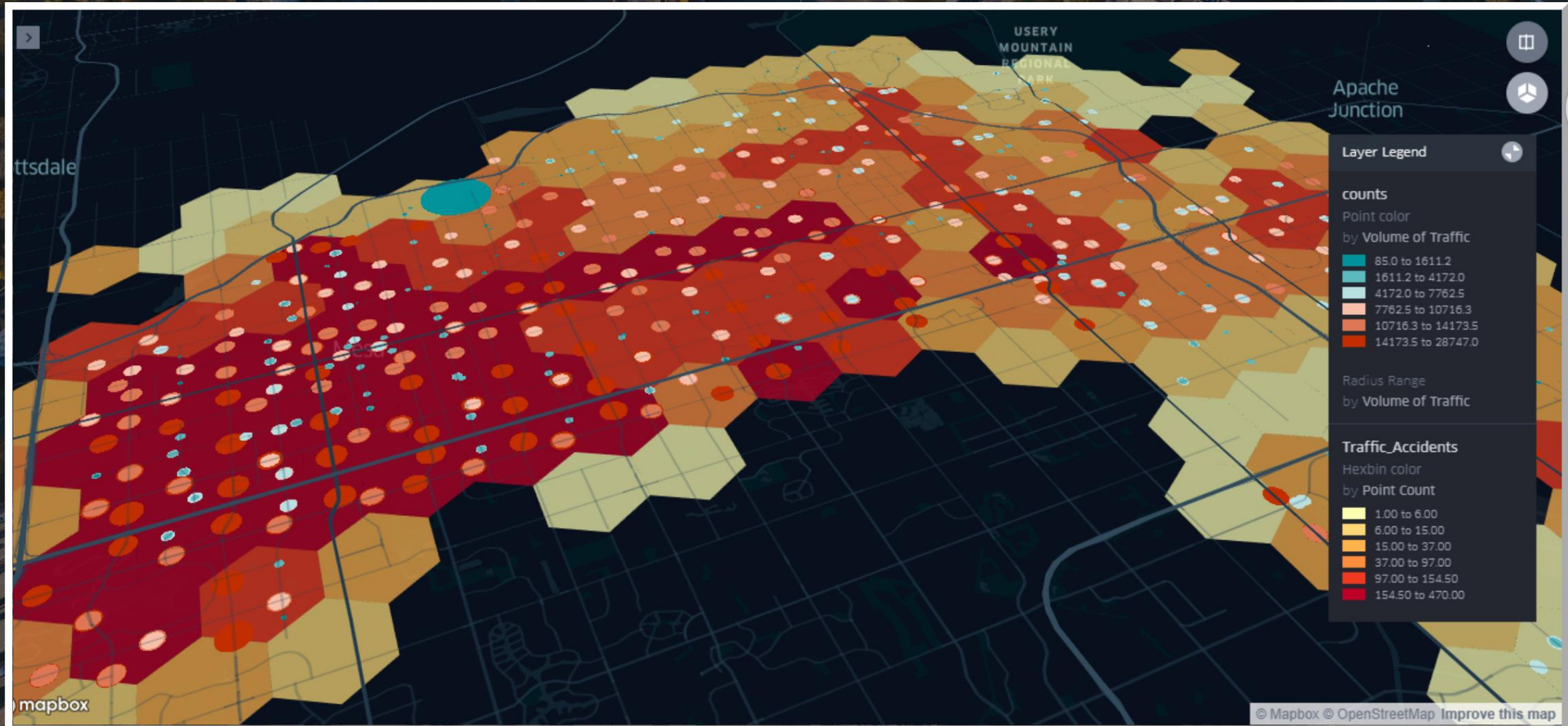
# Data

We looked at the CSV files number of traffic accidents from 2017 to 2018 and we also looked at data for the ammount of vehicles that passed by certain areas 2013-2017.





# Traffic Accidents 2017-2018





# Potential Locations For Roundabouts

E Southern Ave & S Power Rd

N Country Club Dr & W McKellips Rd

S Dobson Rd & E Southern Ave

S Signal Butte Rd & E Baseline Rd

E Baseline Rd & N Gilbert Rd

S Gilbert Rd & E Main St.

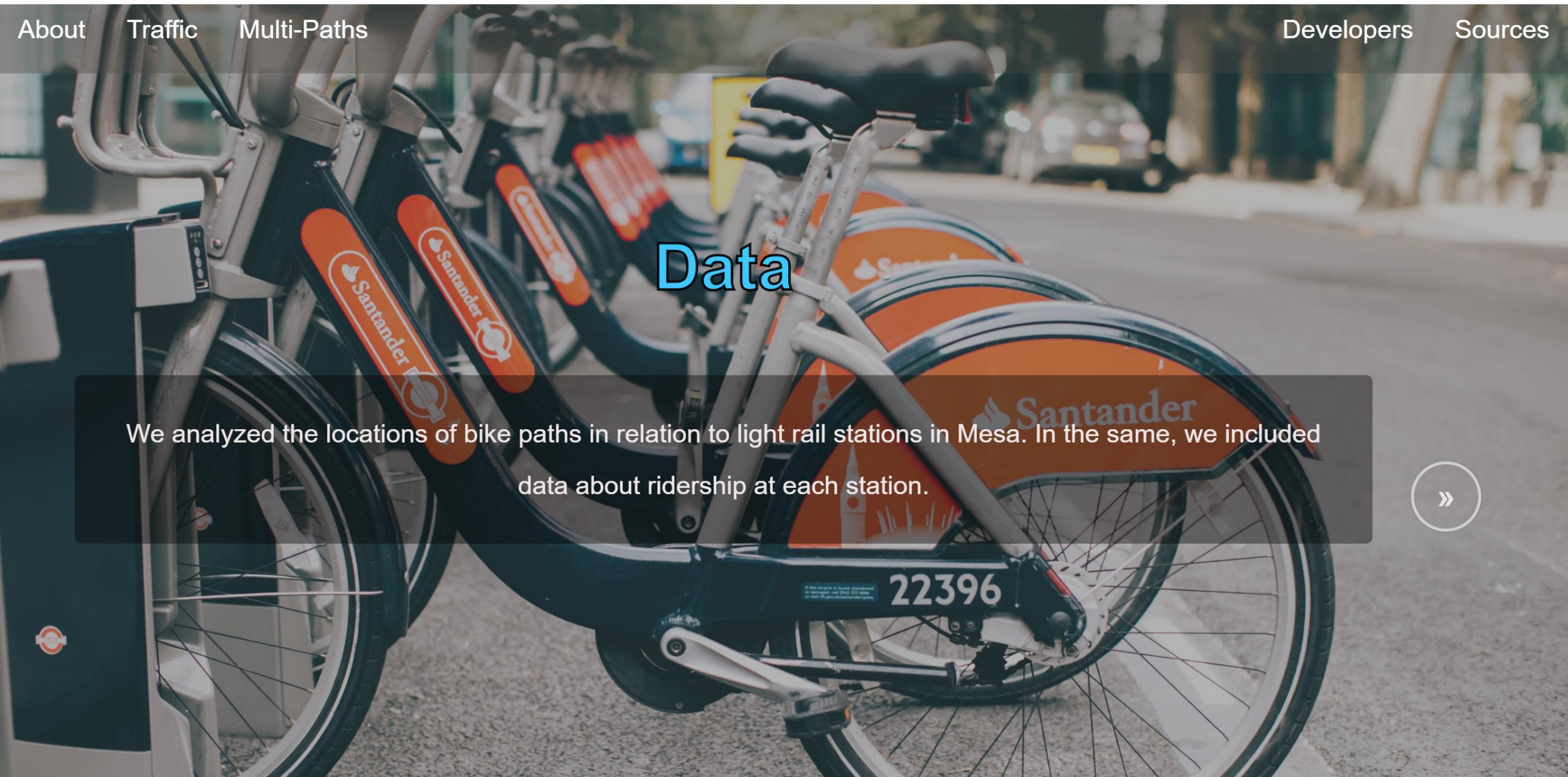
E Main St & N Higley Rd

E Broadway Rd & S Dobson Rd

W Main st & N Country Club Dr







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# Data

We analyzed the locations of bike paths in relation to light rail stations in Mesa. In the same, we included data about ridership at each station.



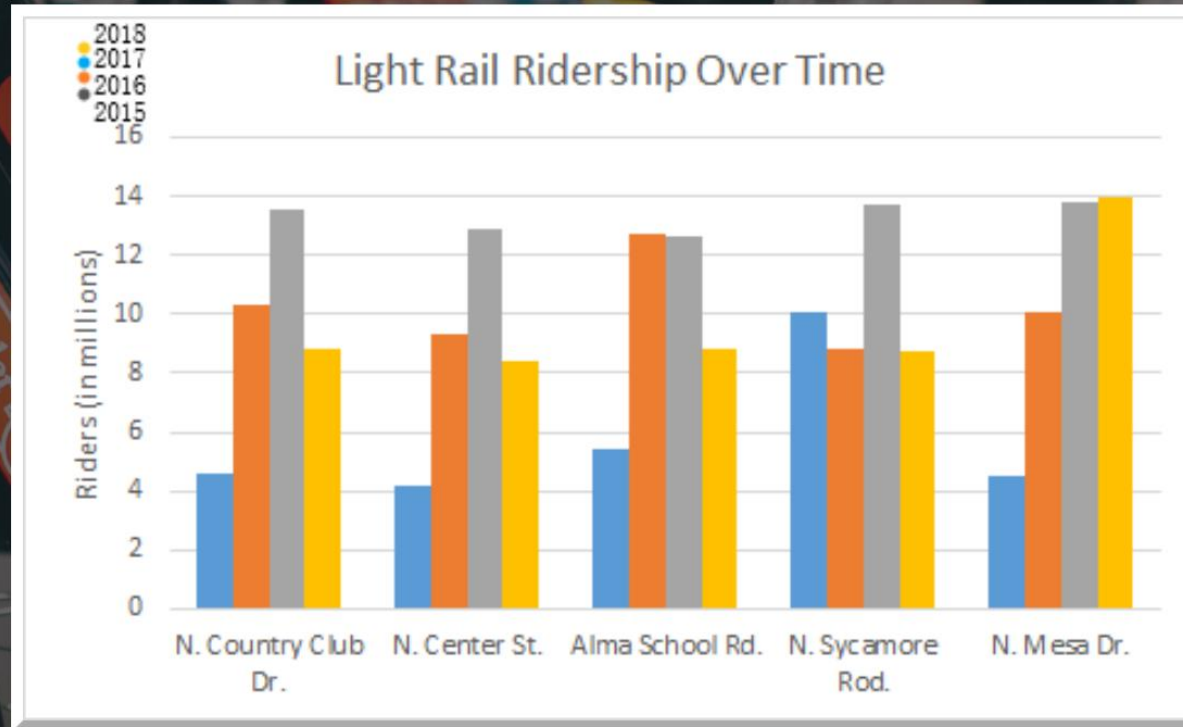


# Station Locations & Bike Paths





# Annual Ridership per Station





# Outside Research

In Pittsburgh, Pennsylvania a bike path was implemented near light-rail stations. The paths are a lot safer because people are less likely to cross the tracks. It prevents trespassing, They can be used for recreational or travel purposes. It enhances transit by improving access.

